

Utah Division of Air Quality New Source Review Section

Form 23 Rotary Kiln Incinerator

Company	
Site /Source_	
Date	

There are federal standards and guidelines that govern incineration of: Hospital/medical/infectious waste; municipal waste; commercial/industrial waste, cement kilns. Consult 40CFR60, Subparts AAAA, DDDD, E_C, and F, as appropriate

General Information							
Flow diagram designations of rotary kiln Incinerator described on this form							
2. Manufacturer of Incinerator:	3. Model name and number:						
4. Description of material burned:	Maximum amount of waste to be incinerated: lb/hr						
6. Estimated daily amount of waste to be incinerated:pounds per day	7. Height of stack above grade: feet						
8. Height of tallest structures within 150 feet: feet	9. Primary burner used: ☐ Yes ☐ No Maximum rating: BTU/hr						
10. Secondary Burner used: ☐ Yes ☐ No Maximum ratingBTU/hr							
11. Description of Typical Waste to Be Incinerated: □ Medical/hospital/infectious □ Municipal □ Industrial □ Commercial							
Operation	nal Information						
12. Average operation time of incinerator:h	rs/day days/weekweeks/year						
13. Maximum operation time of incinerator: h	rs/day days/weekweeks/year						
14. Residence time: Primary seconds	Secondary seconds						
15. Proposed BACT (Best Available Control Technology ☐ Quench Tower ☐ Heat Exchanger ☐ Dry Scrubber (DAQ Form 9) ☐ Wet Scrubber (DAQ Form 9) ☐ Baghouse (DAQ Form 10)	y):						
□ Carbon Adsorption Unit							

Form 23 - Rotary Kiln Incinerator (Continued)

		Emission I	nformatio	on		
		16. Averag	e Operati	on		
Contaminant	Concentration or Emission Rate per Identical Source			Method Used to Determine Concentration or Emission Rate		
Particulate matter	gr/dscf	□ lb/10 ⁶ BTU	□ lb/hr			
Carbon Monoxide	ppm (vol)	□ lb/10 ⁶ BTU	□ lb/hr			
Nitrogen Oxides	ppm (vol)	□ lb/10 ⁶ BTU	□ lb/hr			
Organic material	ppm (vol)	□ lb/10 ⁶ BTU	□ lb/hr			
Sulfur Dioxide	ppm (vol)	□ lb/10 ⁶ BTU	□ lb/hr			
	16. M	aximum Ope	ration - C	ontinued		
Contaminant		or Emission Ratical Source	ate per	Method Used to Determine Concentration or Emission Rate		
Particulate matter	gr/dscf	□ lb/10 ⁶ BTU	□ lb/hr			
Carbon Monoxide	ppm (vol)	□ lb/10 ⁶ BTU	□ lb/hr			
Nitrogen oxides	ppm (vol)	□ lb/10 ⁶ BTU	□ lb/hr			
Organic material	ppm (vol)	□ lb/10 ⁶ BTU	□ lb/hr			
Sulfur Dioxide Hydrogen Chloride	ppm (vol)	□ lb/10 ⁶ BTU	□ lb/hr			
	16. Maxin	num Operatio	on - Metal	s - Continued		
Cadmium: milligram/dscf			Mercury:	pounds per hour		
Lead: pounds per hour			Dioxins/furins: pounds per hour			
	17.	Exhaust P	oint Infor	mation		
Flow diagram designat	ion(s) of exhaust poi	nt:				
Description of exhaust	point (location in rela	ation to buildings	, direction, h	nooding, etc.):		
Exhaust height above grade: feet			Exhaust diameter:			
Greatest height of nearby buildings: feet			Exhaust distance from nearest plant boundary:feet			
Average Operation			Maximum Operation			
Exhaust gas temperatu	ıre:		Exhaust gas temperature:			
Gas flow rate through each exhaust point:			Gas flow rate through each exhaust point:			

Form 23 - Rotary Kiln Incinerator (Continued)

Emissions Calculations (PTE)							
18.	Calculated emiss	sions for this de	evice				
	PM ₁₀	Lbs/hr	Tons/yr	NO _x	Lbs/hr	Tons/yr	
				VOC			
	HAPs						
	Submit calculation			, ,			
				Instructions			
NOT				Form 1 and Form : 801) 536-4000 if v		s or questions in filling	
	out this forn	n. Ask to spea	ak with a New S	Source Review eng ion control equipm	ineer. We will be		
1. 2. 3. 4. 5. 6. 7. 8. 9. 10. 11. 12. 13. 14.	Indicate the conf	ufacturer of the el and number the source of mum amount of amount of the stack of tallest striffications for see of typical was age operation mum operation ence time in the trol technology tions for control.	e incinerator. of the incinerative waste to be incomposed to be incined above ground ructure within 1 rimary burner undecondary burner to be incined time of the incined to be use. Supply waste to be use. Supply waste to be use.	tor. inerated. ncinerated. erated. level. 50 feet. sed. er used. herated. herator. secondary chambe bmit the correspon	ding form, if avai	ilable, for the control technology. orms available upon request are the	
		Form 3 Form 4 Form 5 Form 6 Form 7 Form 8 Form 9	Flares Adsorption Cyclone Condense	Unit			

- 17. Supply the exhaust specifications listed.
- 18. Supply calculations for all criteria pollutants and HAPs. Use AP42 or Manufacturers data to complete your calculations.

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